Instructions

General Information

*Project Title	Makerspace Boxes in a Collective
*Grant Award Number	40-8507
*Choose grant project start date	2015-07-01
*Choose grant project end date	2016-06-30

Project Abstract
Use past tense and write for a general audience by avoiding jargon, acronyms, and abbreviations. Also avoid highly technical project details, numerical lists of project goals, and bullets. If possible, state the "who, what, and why" of the project in the first sentence or two. High-level results can be included, but specific outcomes are more appropriate to Outcomes section below. Ideal length is 90-160 words.

*Project Abstract	The project, Makerspace Boxes in a Collective, was a group of seven libraries that created seven boxes with supplies to create programming for all ages, focusing on STEAM and 21st century technology. The Maker Movement is important to keep up with the evolving library landscape. The project exposed our communities to new ideas, technology, and skills. We rotated these boxes monthly, combining resources to expand our Maker programs. The seven boxes included six 3D printers, Squishy Circuits, LED Circuitry and Makey Makey electronics. We presented to the community and with our Open House for press, VIPs, Councilmembers, Commissions, and Friends, we were able to show the viability of the Maker Movement. The workshop for area librarians showed us that there is a definite need in this kind of project. The regular monthly programming was well received and exceeded the expectations.

CSL LSTA Goal
Please choose one goal in the California State Library LSTA Five Year Plan 2013 - 2017 that best describes the project.

*CSL LSTA Goal	Goal 2: 21st Century Skills

Project Director

*Project Director First Name	Karilyn
*Project Director Last Name	Steward
*Project Director Title	Librarian
*Library/Institution	Calabasas City Library
*Street Address	200 Civic Center Way
Address Line 2	
*City	Calabasas
*State	California
*Zip Code	91302
*Project Director Phone Number	(818) 225-7616
*Project Director Email Address	ksteward@cityofcalabasas.com

Grant Monitor

*Grant Monitor Name	Lena Pham
*Grant Monitor Email Address	lena.pham@library.ca.gov

Library/Institution Grantee

*Library/Institution	Calabasas City Library
*Director First Name	Barbara
*Director Last Name	Lockwood
*Title	City Librarian
*Street Address	200 Civic Center Way
Address Line 2	
*City	Calabasas
*State	California
*Zip Code	91302
*Director Phone Number	(818) 225-7616
*Director Email Address	blockwood@cityofcalabasas.com
*Choose the library/organization type	Public

Additional Materials

You can attach to this report any supporting documents relating to outcomes, outputs or other information that you believe will add to the report.

Additional Materials (attach supporting documents)	articleonPage3ofSync_April_2016.pdf|CLApresentationNovember2016.pdf|flyer3Dprinting Moorpark.pdf|flyerBrushbotThousandOaks.pdf|flyerprogrammingFebruary.pdf|MakerBoxrotationscheduleoriginal.pdf|openhouseflyer.PDF|openhouseSTEAMdisplaybehindMakerBox.docx|pics3d Printing Demo Moorpark.JPG|picsadultprogramCalabasas.JPG|picsBrushbotsThousandOaks.jpg|picsLEDOxnardprogram.jpg|picsmakerboxlogostaffCamarillo.jpg|picsMakeyMakeySimiValley.JPG|picsSquishyCircuitsCalabasas.JPG|press example openhouse.doc|SurveyMakerBox Programs.pdf|WorkshopforLibrariansflyerMakerBoxCollective.pdf|WorkshopforLibrarianshandoutsMakerBoxCollective.pptx|0212_vclo_LibraryOpenHouse1.JPG|0212_vclo_LibraryOpenHouse2.JPG|0212_vclo_LibraryOpenHouse3.JPG|0212_vclo_LibraryOpenHouse4.JPG|0212_vclo_LibraryOpenHouse5.JPG|0212_vclo_LibraryOpenHouse6.JPG|makerbox.jpg

Websites

If you have any websites that will provide pertinent information about your project or that were created as part of the project, please provide the links below.

URL	http://www.toacorn.com/news/2016-02-25/Community/Fueled_By_Imagination.html?print=1
URL	http://www.vcstar.com/news/local/way-beyond-books-to-library-demonstrates-new-technology-2acecfdd-0801-6a0d-e053-0100007f24e8-369001761.html
URL	https://teamup.com/ks8f068b356481643b
URL	https://makerboxcollective.wordpress.com/
URL	http://makerboxcollective.tumblr.com/

Financial Data

*Amount of Grant Award	$20,000
*Amount of Grant Expended	$20,000
*Amount of Local Match Cash Contribution Expended	$224
*Amount of In-Kind Expended	$41,155
*Total Grant Expenditure	$61,379

IMLS Project Intent

Please choose only ONE selection for the Project Intent that best describes the project.

*Project Intent	Lifelong Learning - Improve users general knowledge and skills

Subject of Intent

Select no more than TWO subjects.

*Subject of Intent	Education - Curriculum support
Subject of Intent	

Project Activities

Activities are actions through which the intent or objective of the project is accomplished. There are four activity types (Instruction, Content, Planning & Evaluation, Procurement), each with select methods which describe how you carried out the activity. For this report, please choose all activities/methods that have made a significant commitment to the project (representing 10% of more of project resources.)

Each project must have at least one activity/method associated with it and may have multiple activities/methods. There are 13 possible choices for activities/methods:

Instruction - Program
Instruction - Presentation/Performance
Instruction - Consultation/Drop In/Referral
Instruction - Other
Content - Acquisition
Content - Creation
Content - Preservation
Content - Description
Content - Lending
Content - Other
Planning & Evaluation - Prospective
Planning & Evaluation - Retrospective
Procurement

On the sections following, select the radio button indicating whether you will or will not be reporting on each specific Activity. If you select Yes, you will be directed to a series of questions about that Activity. If you select No, you will be directed to the next Activity.

Instruction - Programs

A type of instruction mode involving formal interaction and active user engagement.

Do you have an Instruction-Program Activity to report on?	Yes
Activity Title	Programming
Brief Activity Abstract (Ideal length is 90-160 words.)	Our purpose was to expose our communities to new technology and expand skills and STEAM. Supplies were bought and the boxes were sorted and distributed for programming. We included surveys for patrons to fill out so we would be able to ascertain if they were becoming more confident with new skills. The libraries involved had programming for all ages and abilities. We had basic programming ideas including in the boxes, but made it flexible enough for libraries to know their own communities. We were hoping to have at least 60 programs with 1200 participates and we exceeded this with 119 programs and 1583 participates. Our programming encompassed all seven libraries and seven boxes of multiple 3D printers, Makey Makey electronics, Squishy Circuits and LED Circuitry.
Delivery format	In person
Session length - number of minutes	60
Number of sessions in program	1
Average number in attendance per session	13
Total number of times program was administered	119
Total number of program attendees	1,583

What type of partner organizations were involved with this activity?

Select all that apply.

Libraries	Yes
Historical Societies or Organizations	
Museums	
Archives	
Cultural Heritage Organizations (multi-type)	
Preschools	
Schools	
Adult Education	
Human Services Organizations	
Other	

What was the legal structure of the partner organization?

Select all that apply.

Federal government	
State government	
Local government (excludes school districts)	Yes
School district	
Non profit	
Private sector	
Tribe	

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Is the activity directed at?	General or targeted population
Is this activity directed at a targeted population or the general population?	General Population

Geographic community of the targeted group

Choose as many as apply.

Urban	
Suburban	Yes
Rural	Yes

Target Age Group

Select all that apply.

All ages	Yes
0-5 years	
6-12 years	
13-17 years	
18-25 years	
26-49 years	
50-59 years	
60-69 years	
70+ years	

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Is this activity targeted at specific economic situations?	Not applicable
Is this activity targeted at specific ethnic or minority populations?	Not applicable
Is this activity directed at families?	Yes
Is the activity directed at inter-generational groups?	Yes
Is the activity directed at immigrants/refugees?	No
Is the activity directed at those with disabilities?	No
Is the activity directed at those with limited functional literacy or information skills?	Yes
Is the activity directed at groups that fall into a category not already captured? If yes, please provide brief detail.	No

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Is this activity statewide?	No
Can you identify the specific locations in which the activity was offered?	No

Where did the activities take place?

For each type of institution, list number of locations.

Public libraries	7
Academic libraries	
State Library	
Consortia	
Special libraries	
School libraries	
Other	

Instructions - Presentation/Performance

Do you have an Instruction - Presentation/Performance Activity to report on?	Yes
Activity Title	Open House and Workshop
Brief Activity Abstract	The MakerBox Collective had an open house for dignitaries, press, Councilmembers, Commissioners, and Friends groups to show the project and make them aware of the viability of the Maker Movement. They were able to appreciate what the group and project were doing and how it would benefit our communities. We also had a workshop for librarians to showcase our project and how others could become involved in the Maker Movement. We gave a PowerPoint presentation with handouts are attached to this paperwork. In both, we had the boxes available for a hands-on way for others to understand our project.
Delivery format	In person
Presentation/performance length (in minutes)	120
Number of presentation/performances administered	2
Average number in attendance per session	35
Total number of program attendees	71

What type of partner organizations were involved with this activity?
Select all that apply.

Libraries	Yes
Historical Societies or Organizations	
Museums	
Archives	
Cultural Heritage Organizations (multi-type)	
Preschools	
Schools	
Adult Education	
Human Services Organizations	
Other	Yes
Other (describe)	Friends Groups

What was the legal structure of the partner organization?

Select all that apply.

Federal government	
State government	
Local government (excludes school districts)	Yes
School district	
Non profit	
Private sector	
Tribe	

-

Is the activity directed at?	Library workforce (including volunteers and trustees)

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Is this activity statewide?	No
Can you identify the specific locations in which the activity was offered?	Yes

Locations

	Institution Name	Street Address	City	State	Zip Code
	Thousand Oaks Library	1401 Janss Rd	Thousand Oaks	California	91362
	Calabasas City Library	200 Civic Center Way	Calabasas	California	91302

Where did the activities take place?

For each type of institution, list number of locations.

Public libraries	2
Academic libraries	
State Library	
Consortia	
Special libraries	
School libraries	
Other	

Instructions - Consultation/Drop In/Referral

Do you have an Instruction - Consultation/Drop In/Referral Activity to report on?	No

Instruction - Other

Do you have an Instruction - Other to report on?	No

Content - Acquisitions

Do you have a Content-Acquisition Activity to report on?	No

Content - Creation

Do you have a Content-Creation Activity to report on?	No

Content - Preservation

Do you have a Content-Preservation Activity to report on?	No

Content - Description

Do you have a Content-Description Activity to report on?	No

Content - Lending

Do you have a Content-Lending Activity to report on?	No

Content - Other

Do you have a Content-Other Activity to report on?	No

Planning & Evaluation - Prospective

Do you have a Planning & Evaluation - Prospective Activity to report on?	No

Planning & Evaluation - Retrospective

Do you have a Planning & Evaluation - Retrospective Activity to report on?	No

Procurement

Do you have a Procurement Activity to report on?	No

Project Outcomes

List any important outcomes or findings from your project. What changes occurred in your target audience's skills, knowledge, behavior, attitude, and/or status/life condition?	The group created and used surveys to give to collect information on what participants learned, whether they enjoyed the program and if they had experience with new technology. We imputed the surveys in Project Outcomes. We far exceeded our goal that all age ranges would feel more confident in their technological skills. We originally were aiming for 60% of our participants. Overall in our programming, 83% felt more confident in 21st century skills and 90% felt they learned something that was helpful. 74% intended to either apply what they learned or learn more about the subject. 88% were now aware of the available resources and services of the respective library. The patrons returned many times to MakerBox programming over the year and they would become a regular patron, using other resources available.
Briefly describe the importance of the outcomes or findings (Ideal length is 90-160 words.)	People who hadn't come in the library before, were interested in seeing the 3D printers and other technology. Also, students told us that they could apply what they learned in school but didn't have a chance to experience hands-on opportunities. The MakerBox Collective afforded this opportunity when there were no other projects in communities to service the level of interest. Our outcomes helped us with the level of interest so that we would need to put on more demos, in the case of the 3D printers. It also made our patrons aware of the grant, as we would explain the reason for the surveys, to make them aware of what could happen when libraries had when we worked together, pooled our resources, and received opportunities from the State Library. The MakerBox Collective proved that new technology is needed in libraries, not just for sustainability in the library landscape but for our patrons needs and wants.

What methods were used to determine your outcomes or findings.

Choose all that apply.

Survey	Yes
Review of Administrative Data	Yes
Interview/Focus Group	
Participant Observation	Yes
Tests	
Other	

-

Based on outputs, outcomes and/or other results, explain any significant lessons learned from these findings for either the State Library or others in the library field.	Surveys should be easier for teens and children to understand. The teens and especially children needed help with answering the questions. We asked the questions in simpler terms. Also, because we were helping with surveys, people did leave before a survey was done. We had many more participants than we did finished surveys. However, because of engaging with patrons, we were able to get verbal answers to pertinent questions.

Project Sustainability

*Do you anticipate continuing this project after the current reporting period ends?	Yes
Please describe why (Ideal length is 90-160 words.)	We plan on continuing the project because we are all in a close geographic area, work well together, and our patrons are benefiting immensely from our programming. Our cities and friends groups are supportive and want to continue and expand our programming. As an example, Calabasas is taking a room in the library and making it a "creativity center" in the fall all because of this project. Another library is starting to work with a middle school to do a Maker Club. The Boys and Girls Club in another city is working with a member library and will benefit from this project with programming, as well.
*Do you anticipate any changes in the level of effort?	Yes
Please briefly describe any changes in the level of effort. Include information as to whether you intend to use LSTA, local or in-kind funds. (Ideal length is 90-160 words.)	We rotated mini 3D printers, but believe that this is only good for one year. In this year, we were able to show our supervisors and cities this project was viable and because they were able to see a 3D printer without having to outright purchase it up front, this helped us to have them understand the project. We believe that this project could be done again with 3D printers but a time limit would need to be implemented. We have decided that each library will get a 3D printer to remain at their library, while existing and new boxes can be made and rotated. The 3D printers were an excellent investment to help our communities see the need, but we believe there would need to be an end date to the printer rotation.
*Do you anticipate any changes in the project's scope?	No
Please briefly describe the changes in the project's scope (Ideal length is 90-160 words.)	
*Do you anticipate any other changes in the project?	Yes
Please briefly describe the changes in the project (Ideal length is 90-160 words.)	Our Friends groups have promised to funds and our libraries are putting in-kind monies from programming budgets to maintain the sustainability of this project. We will be added more boxes to share and rotate between our libraries. We are also going to present at the California Library Association to other libraries and librarians to show how this project is worthwhile. While the scope of the project isn't changing, the expansion will be and this will help continue to bring in more patrons of all ages to keep their 21st century skills intact and with more learning.

Exemplary Project

*Is this an exemplary project?	Yes
If yes, please briefly explain (Ideal length is 90-160 words.)	The libraries involved had programming for all ages and abilities. Our purpose was to expose our communities to new technology and expand skills and STEAM. We were hoping to have at least 60 programs with 1200 participates and we exceeded this with 119 programs and 1583 participates. Our libraries received new patrons and received massive press because of this project. The press has helped our other projects and programming with was a plus. We have been asked to present at the California Library Association conference in November. We have received accolades and compliments from our cities, friends groups, school districts, and public. While the Maker Movement moves quickly, our area was not very involved in a public setting before and this afforded the opportunity to reach out to our patrons, share resources with our fellow libraries, work together and get involved in a project that benefited all.

Comments

Project Tags (Enter 3 words separated by commas)	Makerspaces, Technology, Public
Project Comments	The project was a success with the help of Lena Pham, Grant Monitor. She guided us and answered questions all year long. Some changes to the program would be that mini 3D printers should be rotated for one year. This is mentioned in another part of the report. Also, our delivery structure was fine in that we were in the same geographic area and created two libraries that we called Hubs for libraries to pick up and drop off, but a more organized system should be in place. These are just two small changes we would make, in an otherwise perfect project.
Final Grant Report Comments	The MakerBox Collective brought together seven libraries who wanted to expand programming, expose our patrons to 21st century technology and skills, and work together to share resources. The project was instrumental in getting us off the ground to be able to fulfill our hopes for this endeavor. The group was able to purchases materials, supplies, and equipment, though we got off to a slow start due to funds. This was then sorted into bins and transferred to our member libraries to begin programming. We had many meetings, at least once a month to keep our communication open. We used many resources, such as Google Docs, online calendars, websites, received expansive press, and the backing of our supervisors, cities, friends groups and other local organizations. The MakerBox Collective gave an open house for dignitaries, press, and our local groups, plus a workshop exclusively for librarians. We had many programs at each library serving numerous patrons. We had an overwhelming amount of surveys that showed the participants were learning and felt confident about 21st century technology. The project continued to grow and we all still have outstanding communication and have remained friends. Other libraries who want to start a MakerBox Collective have the potential to get their communities involved. Our MakerBox Collective has the ability to grow and expand and remain successful.

Submittal Instructions

[Instructions](#)

1. After you have completed your report and checked your work, click the SUBMIT/LOCK button to send an email confirmation to the State Library. You will receive an immediate acknowledgement of the submittal as well as a confirmation email. You can work on another report in progress by selecting the form from the drop-down menu located below the Submit/Lock button or adding a new form by selecting the Add option.

2. Once the confirmation email is received, log back into the online reporting system and print a copy of the PDF report and have the Library Director sign it (in the box to the right of the certification statement on the form) in blue ink and send the original and one copy as noted below: The print option is located in the top right corner of the screen.

By Mail:
California State Library
P.O. Box 942837
Sacramento, CA 94237-0001
Attention: Fiscal Office LSTA

By Non USPS Delivery:
California State Library
900 N Street
Sacramento, CA 95814
Attention: Fiscal Office LSTA

Submittal Information

Complete the section below with information about the individual filling out the online report.

*Submitter First Name	Karilyn
*Submitter Last Name	Steward
*Submitter Phone Number	(818) 225-7616
*Submitter Email Address	ksteward@cityofcalabasas.com

Certification

*Library/Institution Director Name	Barbara Lockwood
*Library/Institution Director Title	City Librarian
*Date	2016-07-29
*Do you certify that all the information provided herein is accurate to the best of your knowledge?	Yes